Appendix A. Test Sequences Mapped to External Interfaces

The left column of this table lists each interface external to the Release A ECS GSFC DAAC. In the right column is a list of test sequences which contains tests involving that external interface.

Table A-1. External Interface Sequences

External Interface	GSFC Test Sequence
Global Change Master Directory (GCMD)	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/Version 0 (V0) System Interoperability Sequence 10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
GSFC V0 DAAC	8.1.7 Facilities InterfaceSequence 9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence 10.1.1 ECS Desktop User Sequence 10.1.2 ECS/Version 0 (V0) System Interoperability Sequence 10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence 10.2.1 GSFC SCF/ECS Sequence 12.4.1 Science Data Search and Retrieval Sequence 12.4.4 ECS Data Set Interoperability Sequence 12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence 12.5.4 ECS Testability and Overall Capabilities Sequence
TSDIS (Simulator)	8.1.7 Facilities Interfaces Sequence 9.2.3 Higher Level Processed Data Receipt from the TSDIS to the GSFC DAAC Sequence 9.4.1 Archived TRMM Data Delivery Sequence 9.4.3 Reprocessed Data Receipt from the TSDIS (GSFC) Sequence 12.1.2 Multi-Site System Management Sequence 12.2.2 TSDIS Data Handling Sequence 12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence 12.5.4 ECS Testability and Overall Capabilities Sequence
EDOS (Simulator)	9.1.3 Early AM-1 Interface Test Support Sequence 12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence 12.5.4 ECS Testability and Overall Capabilities Sequence
FDF	9.1.4 Early FDF and AM-1 Interface Test Support Sequence
EOC	8.1.7 Facilities Interfaces Sequence 8.6.1 Fault Management Sequence 12.1.1 Inter-Site Message Sequence

External Interface	GSFC Test Sequence	
SMC	8.1.7 Facilities Interfaces Sequence	
	8.2.1 Schedule Generation Sequence	
	8.2.2 Schedule Adjudication Sequence	
	8.3.1 Enhancements Sequence	
	8.4.1 Resource Management Sequence	
	8.4.2 Maintenance Management Sequence	
	8.4.3 Logistic Management Sequence	
	8.4.4 Training Management Sequence	
	8.4.5 Inventory Management Sequence	
	8.4.6 Quality Management Sequence	
	8.4.7 Policies and Procedures Management Sequence	
	8.5.1 Metrics Sequence	
	8.5.2 Performance Monitoring, Analysis & Testing Sequence	
	8.6.1 Fault Management Sequence	
	8.6.2 Security Management Sequence	
	8.6.4 Report Generation Sequence	
	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence	
	9.2.3 Higher Level Processed Data Receipt from the TSDIS to the GSFC DAAC Sequence	
	9.2.6 Higher Level Processed Data Receipt from the NOAA ADC to the GSFC DAAC Sequence	
	9.4.1 Archived TRMM Data Delivery Sequence	
	9.4.3 Reprocessed Data Receipt from the TSDIS (GSFC) Sequence	
	9.5.3 Maintain Processing Plans and Schedules Sequence	
	10.1.1 ECS Desktop User Sequence	
	10.2.1 GSFC SCF/ECS Sequence	
	12.1.1 Inter-Site Message Sequence	
	12.1.2 Multi-Site System Management Sequence	
	12.2.2 TSDIS Data Handling Sequence	
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence	
	12.5.4 ECS Testability and Overal Capability	
MODIS SCF (Simulated)	10.2.1 GSFC SCF/ECS Sequence	
NOAA ADC	8.1.7 Facilities Interface Sequence	
	10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence	

External Interface	GSFC Test Sequence	
LaRC ECS DAAC	8.1.5 Site Maintenance Sequence	
	8.1.7 Facilities Interfaces Sequence	
	8.3.1 Enhancements Sequence	
	8.6.1 Fault Management Sequence	
	10.1.1 ECS Desktop User Sequence	
	12.1.1 Inter-Site Message Sequence	
	12.4.1 Science Data Search and Retrieval Sequence	
	12.4.3 Science Metadata Production and Storage Sequence	
	12.4.4 ECS Data Set Interoperability Sequence	
EDC ECS DAAC	8.1.7 Facilities Interfaces Sequence	
	8.6.1 Fault Management Sequence	
	12.1.1 Inter-Site Message Sequence	
	12.4.1 Science Data Search and Retrieval Sequence	
	12.4.4 ECS Data Set Interoperability Sequence	
MSFC SCF	10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence	
DAO	9.2.6 Higher Level Processed Data Receipt from the NOAA ADC to the GSFC DAAC Sequence	
	12.4.1 Science Data Search and Retrieval Sequence	
	12.4.4 ECS Data Set Interoperability Sequence	
LaRC V0 DAAC	8.1.7 Facilities InterfaceSequence	
EDC V0 DAAC	8.1.7 Facilities InterfaceSequence	
MSFC V0 DAAC	8.1.7 Facilities InterfaceSequence	
DAS Data Link Server	12.5.1 Data Ingest, Data Server and Data Distribution Performance	
	Sequence	
	12.5.4 ECS Testability and Overall Capabilities Sequence	

Appendix B. Test Sequences Mapped to Operations Scenarios

The left column of this table lists each operational scenario from the ECS Operations Scenarios - Release A (605/OP1). In the right column is a list of test sequences which contains tests involving that operational scenario.

Almost all of the ops. scenarios (except those related to TSDIS) will be included in the GSFC Volume. In addition, some of the ops scenarios are only related to GSFC and will be in only that volume.

Table B-1. Test Sequences Mapped to Operations Scenarios

Operational Scenario	Test Sequence Number	
•	rest Sequence Number	
3.1 Computer System Administration Activities		
3.1.1 ECS System Shutdown/Startup Scenario	8.1.2 Site Start-up Sequence	
3.1.2 Computer System Administration Backup & Restore/Recovery	8.1.4 Site Shutdown/Recovery Sequence 8.1.6 Site Data/Metadata/Information Management Sequence	
3.2 Problem Management Activities		
3.2.1 Trouble Ticket and Problem Tracking Scenario	8.6.1 Fault Management Sequence	
3.3 Fault Management Activities	8.4.7 Policies and Procedures Management Sequence	
3.3.1 Production Failure Scenario		
3.4 Configuration Management (CM) Activities	8.4.5 Inventory Management Sequence	
3.4.1 COTS Hardware Problem Scenario	This ops. scenario will be added to the final SMC volume in Sequence 8.4.2, Resource Management	
3.4.2 Hardware Emergency Change Scenario		
3.4.3 COTS Software Problem Scenario	This ops. scenario will be added to the final GSFC volume in Sequence 8.4.5, Inventory Management	
3.4.4 Custom Software Problem Scenario	This ops. scenario will be added to the final GSFC volume in Sequence 8.4.5, Inventory Management	
3.4.5 COTS Software Upgrade Scenario		
3.4.6 Add New Science Algorithm Scenario	10.2.1 GSFC SCF/ECS Sequence	
3.4.7 System Enhancement Request Scenario	8.3.1 Enhancements Sequence	
3.5 Performance Management Activities	8.4.6 Quality Management Sequence	
3.5.1 Operations Support Scenario	8.5.1 Metrics Sequence	

Operational Scenario	Test Sequence Number
3.5.2 User Notes Performance Degradation	8.5.1 Metrics Sequence8.5.2 Performance Monitoring, Analysis & Testing Sequence
3.5.3 Preparing for New Algorithm Scenario	8.5.2 Performance Monitoring, Analysis & Testing Sequence
3.5.4 Performance Trending Scenario	8.5.2 Performance Monitoring, Analysis & Testing Sequence
3.6 Security Management	
3.6.1 Security Management Login Failure Scenario	8.6.2 Security Functionality Sequence
3.6.2 Accountability Management Create User Account Scenario	
Table 3.6.2.6-1	8.6.3 Accounting and Accountability Sequence
3.7 Resource Planning Activities	8.4.1 Resource Management Sequence
3.7.1 Resource Planning Scenario	8.5.2 Performance Monitoring, Analysis & Testing Sequence
	8.2.1 Schedule Generation Sequence
	9.1.3 Early AM-1 Interface Test Support Sequence
	9.1.4 Early FDF and AM-1 Interface Test Support Sequence
	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
	9.2.3 Higher Level Processed Data Receipt from the TSDIS to the GSFC DAAC Sequence
	9.2.6 Higher Level Processed Data Receipt from the NOAA ADC to the GSFC DAAC Sequence
	9.5.3 Maintain Processing Plan and Schedules Sequence
	12.1.2 Multi-Site System Management Sequence
	12.2.2 TSDIS Data Handling Sequence
	12.4.4 ECS Data Set Interoperability Sequence
3.8 Resource Management and Control Activities	8.4.1 Resource Management Sequence
3.8.1 Data Processing Host Routine	This ops scenario is better suited to LaRC, since that is
Maintenance Scenario	the only Release A DAAC doing production
0.001	processing, and will be included in the LaRC volume.
3.8.2 Installation of Software Upgrade Scenario	This ops. scenario will be added to the final GSFC volume. Specific reference is TBD
3.9 Science Data Ingest Activities	
3.9.1 TRMM Level 0 Data Ingest Scenario	12.2.2 TSDIS Data Handling Sequence
3.9.2 TRMM Data Ingest "Fault" Scenario	9.2.3 Higher Level Processed Data Receipt from the TSDIS to the GSFC DAAC Sequence
	12.5.4 ECS Testability and Overall Capabilities Sequence

Operational Scenario	Test Sequence Number
3.9.3 TRMM Ancillary Data Ingest Scenario	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence 9.2.3 Higher Level Processed Data Receipt from the TSDIS to the GSFC DAAC Sequence 9.2.6 Higher Level Processed Data Receipt from the NOAA ADC to the GSFC DAAC Sequence 12.4.4 ECS Data Set Interoperability Sequence 12.5.1 Data Ingest, Data Server and Data Distribution
	Performance Sequence
3.9.4 Hard Media Ingest Scenario	
3.9.5 Version 0 Data Ingest Scenario	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
3.10 Science Data Archival Activities	12.4.4 ECS Data Set Interoperability Sequence
3.10 Science Data Archival Activities 3.10.1 Startup of a New Data Server Scenario (Nominal)	This ops. scenario will be added to the final GSFC volume in the End-to-End Scenario Group.
3.10.2 Data Insertion Scenario (nominal)	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
	9.2.3 Higher Level Processed Data Receipt from the TSDIS to the GSFC DAAC Sequence
	9.2.6 Higher Level Processed Data Receipt from the NOAA ADC to the GSFC DAAC Sequence
	12.2.2 TSDIS Data Handling Sequence
3.10.3 Data Insertion Scenario (fault)	12.4.4 ECS Data Set Interoperability Sequence 9.2.3 Higher Level Processed Data Receipt from the TSDIS to the GSFC DAAC Sequence
3.11 Science Data Distribution Activities	
3.11.1 Network Data Distribution (Pull) Scenario (Nominal)	10.1.1 ECS Desktop User Sequence 10.2.1 GSFC SCF/ECS Sequence 12.2.3 TRMM Data Product Distribution Sequence 12.4.1 Science Data Search and Retrieval Sequence 12.4.4 ECS Data Set Interoperability Sequence 12.5.2 System Response Time Performance Sequence
Table 3.11.1.6-1	8.6.3 Accounting and Accountability Sequence
3.11.2 Network Data Distribution (Push) Scenario (Nominal)	12.5.2 System Response Time Performance Sequence
3.11.3 Network Data Distribution (Push) Scenario (Fault)	
3.11.4 Hard Media Distribution Scenario	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/Version 0 (V0) System Interoperability Sequence 12.5.2 System Response Time Performance Sequence

Operational Scenario	Test Sequence Number
3.11.5 Network Data Distribution (Pull) Scenario	
3.12 Production Planning Activities	
3.12.1 Routine Production Planning Scenario	8.2.1 Schedule Generation Sequence
	9.5.3 Maintain Processing Plans and
	Schedules Sequence
3.12.2 Replanning Production Scenario	8.2.2 Schedule Adjudication Sequence
3.13 Production Processing	
3.13.1 Normal Production Processing Scenario	Applicable to LaRC - will be used in the LaRC Acceptance Test Procedure Volume
3.13.2 Production Processing Job Anomaly Scenario	Applicable to LaRC - will be used in the LaRC Acceptance Test Procedure Volume
3.13.3 Production Processing Job Modification Scenario	Applicable to LaRC - will be used in the LaRC Acceptance Test Procedure Volume
3.14 User Services Activities	
3.14.1a End-to-End Order Tracking Scenario - Hard Media	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/ Version 0 (V0) System Interoperability Sequence
	10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
3.14.1b End-to-End Order Tracking Scenario - FTP	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/ Version 0 (V0) System Interoperability Sequence 10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
3.14.2 Standard Procedures (Login) Scenario	Oction (ADO) interoperability dequence
3.14.3 System Status Scenario	
3.14.4 Place an Order for a Potential User Scenario	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/Version 0 (V0) System Interoperability Sequence 10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
3.14.5 Non Conformance Report (Software problem) Scenario	8.6.1 Fault Management Sequence
3.14.6 Lost User Password Scenario	This ops. scenario will be in the final GSFC Volume. Reference is TBD.

Appendix C. Test Procedures Mapped to M&O Operations Manual

This table lists each of the maintenance procedures from the <u>Maintenance and Operations</u> <u>Procedures (DID 611)</u> in the left column, and in the right column a list of test procedures which use that procedure.

(Note: This table was requested by GSFC DAAC. It will be filled in as the information becomes available)

Table C-1. Test Procedures Mapped to M&O Operations Manual

Mission Operations Procedures for the ECS	Test Procedure Paragraph #
Project	3 1
3. SYSTEM ADMINISTRATION	
3.1 System Startup and Shutdown	
3.1.1 Startup	
3.1.1.1 Cold - By Subsystem	
3.1.1.2 Warm - By Server Software	
3.1.2 Shutdown	
3.1.2.1 Normal - By Subsystem	
3.1.2.2 Emergency - By Subsystem	
3.1.2.3 Server - By Server Software	
3.1.3 Failover	
3.2 System Backup and Restore	
3.2.1 Incremental Backup	
3.2.2 Full Backup	
3.2.3 File Restore	
3.2.4 Complete System Restore	
3.2.5 Tape Handling	
3.2.5.1 Indexing Tapes	
3.2.5.2 Labeling Tapes	
3.3 System Log Maintenance	
3.4 User Administration	
3.4.1 Adding a User	
3.4.2 Deleting a User	
3.4.3 Changing a User Account Configuration	
3.4.4 Changing User Access Privileges	
3.4.5 Changing a User Password	
3.4.6 Checking a File/Directory Access Privilege Status	
3.4.7 Changing a File/Directory Access Privilege	
3.4.8 Moving a User's Home Directory	
3.5 Installing a New Workstation	
3.5.1 Preparation	
3.5.1.1 Hardware	
3.5.1.2 Network Configuration	
3.5.2 Installation	
3.5.2.1 Hardware	

3.5.2.1.1 Reporting to Inventory	
3.5.2.2 Operating System Installation - By Operating System Type	
3.5.2.2.1 Solaris 2.4 Operating System Installation	
3.5.2.2.2 HP-UX 9.05 Operating System Installation	
3.5.2.2.3 IRIX 5.3 and 6.2 Operating Systems Installation	
3.5.2.2.4 NCD Operating System Installation	
3.5.2.3 Software	
3.5.2.3.1 Custom	
3.5.2.3.2 COTS	
3.5.3 Testing and Verification	
3.5.3.1 Reboot	
3.5.3.1.1 SGI, HP and Sun	
3.5.3.1.2 NCD	
3.5.3.2 Logging In	
3.5.3.3 Test Environment	
3.6 DCE Configuration	
3.6.1 Initial Cell	
3.6.2 DTS Servers	
3.6.3 Additional CDS Servers	
3.6.4 Security and CDS Client Systems	
3.6.4.1 Unconfiguring DCE Client	
3.6.5 DTS Clerks	
3.6.6 CDS Servers	
3.6.7 Creating a Security Server Replica	
4. DATABASE ADMINISTRATION	
4.1 Product Installation and Disk Storage Management	
4.1.1 Installing SQL Server and Related Products and Upgrading	
New Version of SQL Server Products	
4.1.2 Migrating Databases to New Version SQL Server	
4.1.3 Allocating Resources	
4.1.3.1 Allocating Disk Space: Creating Database Devices,	
Maintaining Database Segments	
4.1.4 Monitoring and Managing Resource Utilization	
4.1.4.1 Use of Available Disk Space, Memory, Connection Error	
Logs, State of Transaction Logs, Device Problems, etc.	
4.2 SQL Server Lifecycle Maintenance	
4.2.1 Starting the Server	
4.2.2 Shutting Down the Server	
4.3 SQL Server Logins and Privileges	
4.3.1 Creating SQL Server Login Accounts	
4.3.2 Add User to Database(s)	
4.3.3 Granting Access Privileges	
To grant access privileges, the DBA must have the following TME	
administrator roles:	
4.3.4 Modifying Access Privileges	
4.4 Database Integrity	
4.4.1 Checking Consistency	
4.5 Database Backup and Recovery	
4.5.1 Database Backup	
4.5.2 Transaction Log Backup	

Mission Operations Decodures for the ECC	Tost Duosedune Donognonh #
Mission Operations Procedures for the ECS	Test Procedure Paragraph #
Project Project	
4.6 ECS DAAC-Configured Databases	
4.6.1 Database Size Estimates and Planning	
4.6.2 Database-unique Attributes	
4.6.3 Database Reports	
4.7 Database Tuning and Performance Monitoring	
4.7.1 Design and Indexing	
4.7.2 Queries	
4.7.3 Monitoring and Boosting Performance	
4.8 Troubleshooting	
4.8.1 Diagnosing Database System Problems	
4.8.1.1 Reports	
4.8.1.2 Queries	
4.8.2 On-call User Support and Emergency Response	
5. SECURITY SERVICES	
5.1 Running Security Management Log Analyst Program	
5.2 Reviewing User Activity Data	
5.3 Monitoring and Reviewing User Audit Trail Information	
5.4 Creating a DES User Key	
5.4 Kerberos Authentication	
5.5 SATAN	
5.6 Using Crack	
5.7 Npasswd	
5.8 Tcp_wrappers	
5.9 Tripwire	
5.10 Recovering from Security Breaches	
5.11 Reporting Security Breaches	
6. NETWORK ADMINISTRATION	
6.1 HPOpenView Network Node Manager (NNM)	
6.1.1 Starting NNM (Network Node Manager)	
6.1.2 Adding a Network Object	
6.1.3 Adding a Segment Object	
6.1.4 Adding a Node Object	
6.1.5 Adding an IP Interface Object	
6.1.6 Viewing the Current Network and System Configuration	
6.1.7 Viewing Network Address Information	
6.1.8 Viewing How Traffic is Routed on a Network	
6.1.9 Viewing the Services Available on a Node	
7. SYSTEM MONITORING	
7.1 Checking the Health and Status of the Network	
7.1.1 Starting NNM (Network Node Manager)	
7.1.2 Verify That an Object Is Not Functioning	
7.1.3 Looking at Maps for Color Alerts	
7.1.4 Looking at Maps for New Nodes	
7.1.5 Creating Special Submaps for Monitoring Status	
7.1.6 Checking for Event Notifications	
8. PROBLEM MANAGEMENT	
8.1 Problem Resolution Process — An Overview	
8.2 Using the Trouble Ticket System Tool	
8.2.1 Accessing the Trouble Ticket System	
8.2.1.1 Remedy's GUI Admin Tool	

Mission Operations Procedures for the ECS	Test Procedure Paragraph #
Project	Test Troccuire Taragraph #
8.2.1.2 Remedy's GUI Import Tool	
8.2.1.3 Remedy's Hardware Information Schema	
8.2.1.4 Remedy's GUI Notification Tool	
8.2.2 Submit a Trouble Ticket	
8.2.3 Reviewing and Modifying Open Trouble Tickets	
8.2.4 Forwarding Trouble Tickets	
8.2.5 Adding Users to Remedy	
8.2.6 Changing Privileges in Remedy	
8.2.7 Modifying Remedy's Configuration	
8.2.8 Generating Trouble Ticket Reports	
8.2.9 Re-prioritization of Dated Trouble Ticket Logs	
8.3 Using Hypertext Mark-up Language (HTML) Screens	
8.3.1 ECS Trouble Ticketing HTML Submit Screen	
8.3.2 ECS Trouble Ticketing HTML Success Screen	
8.3.3 ECS Trouble Ticketing HTML List Screen	
8.3.4 ECS Trouble Ticketing HTML Detailed Screen	
8.3.5 ECS Trouble Ticketing HTML Help Screen	
8.4 Emergency Fixes	
8.5 Diagnosing Network Problems	
8.5.1 Performance Management	
9. CONFIGURATION MANAGEMENT	
9.1 Configuration Identification Procedure	
9.1.1 Purpose	
9.1.2 Applicable to	
9.1.3 References	
9.1.4 Procedures	
9.1.4.1 Extended Configuration Identification	
9.1.4.2 Other Procedures as Applicable	
9.2 Configuration Change Control Procedures	
9.2.1 Purpose	
9.2.2 Applicable to	
9.2.3 References	
9.2.4 Procedures	
9.2.4.1 Configuration Change Request Preparation	
9.2.4.2 Change Control Board Process (System and Site-level	
CCBs)	
9.2.4.3 Configuration Control - Deviation and Waivers	
9.3 Configuration Status Accounting Procedures	
9.3.1 Purpose	
9.3.2 Applicable to	
9.3.3 References	
9.3.4 Procedures	
9.4 Configuration Audits	
9.4.1 Purpose	
9.4.2 Applicable to	
9.4.3 References	
9.4.4 Procedures	
9.5 Data Management	
9.5.1 Purpose	
9.5.2 Applicable to	

Mission Operations Procedures for the ECS	Test Procedure Paragraph #
Project	
9.5.3 References	
9.5.4 Procedures	
9.5.4.1 Information Preparation, Submittal, & Cataloguing	
9.5.4.1.1 Creation / Preparation	
9.5.4.1.2 Submission	
9.5.4.1.3 Identification and numbering	
9.5.4.1.4 Logging / Cataloguing	
9.5.4.2 Information Review, Signoff, Release and Change/Revision	
9.5.4.2.1 Document/Test data Review, Release, and Change	
Procedures	
9.5.4.2.2 Review/Release	
9.5.4.2.3 Changes, Revision and Document Maintenance	
9.5.4.3 Information Distribution and Submission to ESDIS/ ECS	
9.5.4.3.1 Data / Document Distribution/Submittal to ESDIS/ ECS	
9.5.4.3.2 Categories of CDRL Data Submitted to ESDIS/ ECS	
9.5.4.3.3 Documentation Distribution	
9.6 Archiving Procedures for the SW CM Manager (ClearCase)	
9.6.1 Purpose	
9.6.2 Applicable to	
9.6.3 References	
9.6.4 Procedures	
9.7 SW Transfer and Installation	
9.7.1 Purpose	
9.7.2 Applicable to	
9.7.3 References	
9.7.4 Procedures	
9.7.4.1 Overview	
9.7.4.2 Operator Roles	
9.7.4.3 Detailed Procedures	
9.7.4.4 Data Activity	
9.8 Change Request Manager	
9.8.1 Configuration Change Request (CCR)	
9.8.2 Accessing Change Request Manager	
9.8.3 View a CCR	
9.8.4 Submit a CCR	
9.8.5 Change State of CCR	
9.8.5.1 Assign-Eval State	
9.8.5.2 Assign-Implement State	
9.8.5.3 Assign-Verify State	
9.8.5.4 Verify State	
9.8.5.5 Close State	
9.8.6 Modify CCR	
9.8.7 Print CCR	
9.8.8 Required Operating Environment	
9.8.8.1 Interfaces and Data Types	
9.8.8.2 Databases	
9.8.8.3 Database Schema	
9.8.8.4 Database Parameters	
9.8.8.5 Command Line Interface	
9.8.8.6 Event and Error Messages	

Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
9.8.9 Reports	
9.8.9.1 Sample Reports	
9.8.9.1.1 Sample Reports 9.8.9.1.1 Sample Report (Full Page Format)	
9.8.9.1.1 Sample Report (Full Fage Format) 9.8.9.1.2 Sample Report (Three Line Format)	
9.8.9.1.3 Sample Report (Index Format)	
9.8.9.1.4 Sample Report (One Line Format)	
9.8.9.2 Report Customization	
9.9 Use of the Baseline Manager	
9.9.1 Purpose	
9.9.2 Applicable to	
9.9.2 Applicable to 9.9.3 References	
9.9.4 Procedures 10. METADATA ADMINISTRATION	
10.1 Metadata Preparation	
10.1.1 Creating Collection Level Metadata	
10.1.2 Creating Product-specific Metadata	
10.1.3 Specifying ESDT Services	
10.2 Creating ESDTs	
10.2.1 Selecting an ESDT	
10.2.2 Creating an ESDT Descriptor	
10.3 Loading Metadata	
10.3.1 Inserting ODL into DSS	
10.4 Metadata Maintenance	
10.4.1 Updating Metadata	
10.4.2 Editing Metadata	
10.4.3 Deleting Metadata	
11. SSI&T OPERATIONAL PROCEDURES	
11.1 Acquiring the Delivered Algorithm Package (DAP)	
11.1.1 Acquiring the DAP Through Ingest	
11.1.2 Acquiring the DAP via FTP	
11.2 Configuration Management	
11.2.1 Creating and Using a View in ClearCase	
11.2.2 Importing Multiple Files into ClearCase from a Directory	
Structure	
11.2.3 Entering a Single File into ClearCase	
11.2.4 Entering a New Directory into ClearCase	
11.2.5 Checking Out an Element from ClearCase	
11.2.6 Checking a Revised Element into ClearCase	
11.3 SSIT Manager GUI	
11.3.1 General Setup of the SSIT Manager	
11.3.2 Setup of Checklist for SSIT Manager	
11.3.3 Initial Setup of the SSIT Manager	
11.3.4 Routine Running of the SSIT Manager	
11.4 Standards Checking	
11.4.1 Checking ESDIS Standards Compliance: FORTRAN 77	
11.4.2 Checking ESDIS Standards Compliance: Fortran 90	
11.4.3 Checking ESDIS Standards Compliance: C	
11.4.4 Checking ESDIS Standards Compliance: Ada	
11.4.5 Prohibited Function Checker	
11.4.6 Checking Process Control Files	

Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
11.5 Compiling and Linking	
11.5.1 Updating the Process Control File (PCF)	
11.5.2 Compiling Status Message Facility (SMF) Files	
11.5.3 Setting up a SDP Toolkit Environment	
11.5.4 Compiling a PGE and Linking With SCF Version of SDP	
Toolkit	
11.5.5 Compiling a PGE and Linking with DAAC Version of SDP Toolkit	
11.6 Updating the PDPS Database and Data Server	
11.6.1 Operational Metadata Population	
11.6.2 Science Metadata Population	
11.6.3 Inserting Science Software Archive Package into Data Server	
11.6.4 Inserting Static Files into Data Server	
11.6.5 Inserting Executables into Data Server	
11.7 PGE Planning and Processing	
11.7.1 Planning Workbench	
11.7.2 Production Request Editor	
11.7.3 Profiling a PGE Executable	
11.8 File Comparison	
11.8.1 Acquiring the Output Files	
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19.2.5 Locate Data Via Search and Order 1001	19.2.3 Locate Data Via Search and Order Tool	
19.2.3.1 Obtain a Spatial Summary	19.2.3.1 Obtain a Spatial Summary	

Mission Operations Procedures for the ECS	Test Procedure Paragraph #
Project	
19.2.3.2 Obtain a Temporal Summary	
19.2.3.3 Obtain a Discrete Attribute Summary	
19.2.3.4 Browse the Search Results	
19.2.3.5 Select Granules to Order	
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19.2.5 Specify Order Details	
*19.2.5.3 Provide Billing & Accounting Information	
19.2.5.4 Order Data Quick-Steps	
19.2.6 Update User Contact Log	
19.2.6.1 Update a User Contact Log Procedure	
19.2.6.1.1 Update User Contact Log Record - Quick-Steps	
19.3 Cancel an Order	
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19.3.2 Cancel an Order Via DSS	
19.3.2.1 Locate Order Via Request Tracking Tool	
19.3.2.2 Cancel Order Via Science Data Server GUI	
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19.4 Fulfilling Subscriptions	
19.4.1 Fulfilling a One-time Subscription	
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19.4.4 Canceling a Subscription	
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19.5 Creating/Logging a Trouble Ticket	
19.6 Cross-DAAC Referral Process	
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20.1 SEO Document Maintenance	
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Configuration Items in Baseline Manager	
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Project 20.8 Retrieval of HTTP Formatted Documents	
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21.1 COTS Hardware Support - General 21.1.1 Corrective Maintenance	
21.1.1 Corrective Maintenance 21.1.2 Preventive Maintenance	
21.1.3 Configuration Management	
21.1.4 COTS Hardware Support Safety	
21.2 COTS Hardware Support - Contract Information	
21.2.1 Management of COTS Hardware Support Contracts 21.2.2 Contract Maintenance Terms	
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21.4.2 Use of Maintenance Spares	
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21.5 Non-standard Hardware Support	
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22.1.2 Management of COTS Software Licenses	
22.1.3 COTS Software Installation	
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22.1.4.1 COTS Software Problem Reporting	
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22.2.3.4 Creating the SW Build Using SW Change Manager	
(ClearCase)	
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(ClearCase)	

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22.2.3.5.2 Promotion_level Script Description	
22.2.3.6 Installing the New Release	
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22.2.4.1 SW Problem Reporting	
22.2.4.2 Troubleshooting	
22.2.4.3 Corrective Action Reporting	
22.2.5 Science Software	
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23.2 Equipment Tagging	
23.3 Property Records and Reporting	
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25. COTS TRAINING	
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Appendix D. Test Sequences Mapped to GSFC Hardware

This table lists each piece of hardware at the Release A ECS GSFC DAAC in the left column, and in the right column a list of test procedures which use that hardware as part of the procedure(s).

(Note: This table was requested by GSFC DAAC. It will be filled in as the information becomes available)

Table D-1. Test Sequences Mapped to SMC Hardware

	HWCIC		Custom	сотѕ	Test Procedure
Subsystem	SCI	Platform	Executables	COTS	Paragraph #
CSS	DCHCI	CSS-SMC-1 (CSS server) and MSS- SMC-5 (MSS server)	DCE Directory, Security and Time servers, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, net.h++, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, netscape browser, mail server, Crack, Npassword, TCP Wrappers, Tripwire	
MSS	MSSHCI	MSS-SMC-5 (MSS server) and CSS- SMC-1 (CSS server)	MsAgDpty, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, net.h++, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, netscape, Sybase server, essm, sqr wkbch, PNM, HPOV, Crack, Npassword, TCP Wrappers, Tripwire	
MSS	MSSHCI	MSS-SMC-1	peer agent,	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase server and client, tools.h++, dbtools.h++, Remedy, tivoli client, wabi/office, netscape server (must be configured for DNS lookup), sybase client, Crack, Npassword, TCP Wrappers, Tripwire	
Subsystem	HWCI/C SCI	Platform	Custom Executables	сотѕ	Test Procedure Paragraph #

MSS	MSSHCI	MSS-SMC-3 (MSS WS)	GUI executables	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, netscape browser, Crack, Npassword, TCP Wrappers, Tripwire	
CSS	DCHI	CSS-SMC-2 (BB server)	Ingest operator GUI, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, netscape browser, Bulletin Board (NNTP), Crack, Npassword, TCP Wrappers, Tripwire	
Client	DESKT	All operator workstations and servers (if xterms access servers)	EcsDesktop	ROGUEWAVE tools.h++ OODCE DCE C/C++ Doug Young's Libtrary for Motiff/C++ 1992 Epak Widgets	
				Motif Window Manager, mw platform-dependent alterna (SGI), NCDs (NCDwm), etc	tive: Vuewm (HP), 4Dwm
				Web browser: Netscape	
				version ICS Builder Xce	or CDE with equivalent Motifessory ICS EPak widgets C/C++ compilers and
				Doug Youngs's C++ library ECS C++ widget wrapper lib	
Client	WKBCH		User Registration Tool User Profile Tool	Same as Client	

Appendix E. Test Procedure Format

The following contain a test procedure template, with annotations describing what each item contains.

A.1 Scenario Test Group

Each Scenario Group begins with an overview paragraph describing the Scenario Group.

A.1.1 Scenario Title

Each Scenario begins with a paragraph summarizing the Scenario.

A.1.1.1 Sequence Title

Each Sequence has a brief summary describing this sequence of tests.

Configuration: The subsystems needed to perform this sequence of tests are listed here. Appendix D contains additional detail.

External Interfaces: The external interfaces (i.e. other ECS sites and data sources) needed for a sequence (both real and simulated) are listed.

Operator Position(s): The operator positions from the <u>ECS Maintenance and Operations</u> <u>Position Descriptions</u> document (607/OP2) needed to support a sequence are listed.

Operational Scenario(s): The operations scenarios, taken from the <u>Operations Scenarios for the ECS Project: Release-A</u> document (605/OP1), that were used to develop tests in this sequence of tests are listed.

Test Dependencies: This table identifies the test procedure(s) in a sequence of tests that should be run prior to or concurrently with a sequence or test procedure.

Test Procedure	Site/Procedure No.	Comments
Insert proc. # for this volume	List site/proc. #	Prior or Concurrent

A.1.1.1.1 Procedure Title

TEST Procedure No.: A unique #, taken from the Acceptance Test Plan, used to identify the test in RTM	Date Executed: Filled in on the date the formal test is run	Test Conductor The test conductor for this site
---	---	---

Title: The title of the test

Objective: A brief statement of the objective of this procedure, taken from the ATP test case description.

Requirements	Acceptance Criteria
Requirement i.d. from RTM (i.e. DADS1700#A	For each requirement verified in a procedure the acceptance criteria contains the following information in the order shown below:
	a. The Verification method (inspection, analysis, demonstration or test)
	b. The text of the requirement
	c. A brief description of HOW the requirement is verified in the test procedure. This description may specify certain functions that the system must perform, specifications or standards that must be complied with, or performance criteria (such as responses times or throughput) that must be met.

Test Inputs: For each procedure, specific test inputs are identified and listed in the table below

Data Set Name	Data Set ID	File Name	Description	Version
Descriptive name	data set identifier	name of the physical file containing the data	a brief description of what is in the file	A version control number

Step-By-Step Procedures					
Step No.	Input Action / Expected Results	Pass / Fail / Comments			
10	Contains a description of a particular input, or action to be taken by a tester or operator, OR an expected result from the system under test.	Brief explanation of why a step may have failed, or a deviation from the written procedures, and a reference to an NCR, if applicable.			
20					
30					
etc.					

Data Reduction and Analysis Steps:

This section describes the method used for data reduction and includes instructions necessary to complete the analysis of test results. If applicable, the XRunner and LoadRunner reports generated during script execution are also described in this section. A list of all test outputs that need to be secured after testing (i.e. screen dumps, system logs, etc.) is also included here.

Signature:	Witness or testers signature	Date :	Date the test is signed off
		•	•

Abbreviations and Acronyms

ACMHW Access and Control Management Hardware

ADC Affiliated Data Center

ADSVR Advertising Data Server

AI&T Algorithm Integration and Test

AITHW Algorithm Integration and Test Hardware

AM-1 EOS AM Project (morning spacecraft series)

API application programming interface

ARP address resolution protocols

ASF Alaska SAR Facility (DAAC)

ASTER Advanced Spaceborne Thermal Emission and Reflection Radiometer

(formerly ITIR)

ATC Actual Time Command

ATP Acceptance Test Plan

ATPR Acceptance Test Procedures

ATT Acceptance Test Team

AVHRR Advanced Very High Resolution Radiometer

BER bit error rate

BGP boundary gateway protocol

CASE Computer Aided Software Engineering

CAST Computer Aided Software Test

CCR Configuration Change Request

CCSDS Consultative Committee for Space Data Systems

CDRL Contract Data Requirements List

CERES Clouds and Earth's Radiant Energy System

CIESIN Consortium for International Earth Science Information Network

CIO Contents Identifier Object

CLS Client Subsystem

CM Configuration Management

cmi continuous measurable improvement

CMO Configuration Management Office

COTR Contracting Officer's Technical Representative

COTS Commercial Off-The-Shelf (hardware or software)

CSR Consent to Ship Review

CSS Communications Subsystem

CZCS Coastal Zone Color Scanner

DAAC Distributed Active Archive Center

DAS Daily Activity Schedule

DBMS Data Base Management System

DCN Document Change Notice

DDICT Data Dictionary

DDTS Distributed Defect Tracking System

DDN Data Delivery Notice

DDS Data Document Server

DDIST Data Distribution

DES Data Encryption Standard

DHF Data Handling Facility

DIPHW Distribution and Ingest Peripheral Hardware

DID Data Item Description

DIT Data Ingest Technician

DIF Data Interface Facility (EDOS);

DMGHW Data Management Hardware Sytstem

DMS Data Management System

DOF Distributed Object Framework

DPS Data Processing Subsystem

DSA directory service agent

DSN Deep Space Network

DSS Data Server Subsystem

EAS ECS Advertising Service

Ecom ECS Communications

ECS EOSDIS Core System

EDC EROS Data Center (DAAC)

EDF ECS Development Facility

EDHS ECS Data Handling System

EDOS EOS Data and Operations System

ED-Net EOSDIS Backbone Network

EDU Exchange Data Unit

EGS EOS Ground System

EMC Enterprise Monitoring and Coordination

EOC EOS Operations Center

EOS Earth Observing System

EOSDIS Earth Observing System Data and Information System

ERBE Earth Radiation Budget Experiment

EROS Earth Resources Observation System

ESDIS Earth Science Data and Information System

ESN ECS Science Network

ETS EOSDIS Test System

F&PRS Functional and Performance Requirement Specification

FCA Functional Configuration Audits

FDF Flight Dynamics Facility

FOS Flight Operations System

FOT Flight Operations Team

FTP File Transfer Protocol

GATT Government Acceptance Test Team

GCDIS Global Change Data Information System

GCMO Global Change Master Directory

GDS ground data system

GN Ground Network

GPCP Global Precipitation Climatology Project

GPI GOES Precipitation Index

GSFC Goddard Space Flight Center

GUI Graphic User Interface

GV TRMM Ground Verification

HTML Hypet-Text Markup Language

I/O Input/Output

I&T Integration and Test

IATO Independent Acceptance Test Organization

ICLHW Ingest Client Hardware

ICMP Internet Control Message Protocol

IDR Incremental Design Review

IGS International Ground Station

ILS Integrated Logistics Support

IMS Information Management System

INS Ingest Subsystem

IOS Interoperability Subsystem

IOT Instrument Operations Team

IP Internet Protocol

IR Interim Release

IRD Interface Requirements Document

ISCCP International Satellite Cloud Climatology Project

ISS Internetworking Subsystem

ISS Information Subsystem

IST Instrument Support Terminal

IV&V Independent Verification and Validation

JPL Jet Propulsion Laboratory

L0–L4 Level 0 through Level 4 data

LOR Level 0 Reformatted

LPS Landsat Processing System

L-7 Landsat 7

LAN Local Area Network

LaRC Langley Research Center

LIS Lighting Imaging Sensor

LSM Local System Management

LSM Local Site Manager

LTIP Long Term Instrument Plan

LTSP Long Term Spacecraft Plan

LVOs Label Value Objects

M&O Maintenance and Operations

MAC Medium Access Control

MDT mean down time

MIB Management Information Base

MIME Multi-purpose Internet Mail Extension

MISR Multi-Angle Imaging SpectroRadiometer

MITI Ministry of International Trade and Industry (Japan)

MODIS Moderate Resolution Imaging Spectrometer

MOPITT Measurements of Pollution in the Troposphere

NA Network Analysis

MSFC Marshall Space Flight Center

MSS Management Subsystem

MTBM Mean-Time Between Maintenance

NAB National Association of Broadcasters

NARA National Archives and Records Administration

NASA National Aeronautics and Space Administration

NASCOM NASA Communications

NCC Network Communication Center

NCDC National Climatic Data Center

NCR Non Conformance Report

NGDC National Geophysical Data Center

NIST National Institute for Standards and Technology

NLDN National Lightening Detection Network

NMC National Meteorological Center (NOAA)

NOAA National Oceanic and Atmospheric Administration

NODC National Oceanic Data Center

NOLAN Nascom Operational Local Area Network

NRCA Nonconformance Reporting and Corrective Action

NSI NASA Science Internet

NSIDC National Snow and Ice Data Center

OA Office Automation

ODC Other Data Center

ODFs Operational Data Files

OJT On-the-Job Training

ORNL Oak Ridge National Laboratory

OSI Open Systems Interconnection

OSPF Open Shortest Path First (routing protocol)

OTD Optical Transient Detector

PA Product Assurance

PCAs Physical Configuration Audits

PDPS Product Development and Processing System

PDR Preliminary Design Review

PDS Production Data Set

PIs Principal Investigators

PLS Planning Subsystem

PLNHW Planning Hardware

PM Performance Manager

PR Precipitation Radar

QA Quality Assurance

QO Quality Office

RIO Reference Identifier Object

RIP Routing Information Protocol (207)

RM Resource Manager

RMA Reliability, Maintainability, Availability

RRR Release Readiness Review

RTM Requirements & Traceability Management

S/C spacecraft

SA System Administrator

SAA Satellite Active Archive

SAGE Stratospheric Aerosol and Gas Experiment

SAR Synthetic Aperture Radar

SCC Spacecraft Computer

SCF Science Computing Facility

SDL Software Development Library

SDPF Sensor Data Processing Facility

SDPS Science Data Processing Segment

SDR System Design Review

SDSVR Science Data Server

SI&T System Integration and Test Organization

SMC System Management Center

SME Subject Matter Expert

SMMR Scanning Multichannel Microwave Radiometer

SMPTE Society of Motion Picture & Television Engineers

SMS Systems Management Subsystem

SNMP Simple Network Management Protocol

SORR Segment Operational Readiness Review

SPRHW Science Processing Hardware

SSITT Science Software Integration and Test Team

SSM/I Special Sensor Microwave/Imager

SSR Solid State Recorder

SUT System Under Test

SW Software

SWE Snow Water Equivalent

TB tera-byte

TDRSS Tracking and Data Relay Satellite System

TMI TRMM Microwave Imager

TOMS Total Ozone Mapping Spectometer

TOO Target of Opportunity

TOVS Television Infrared Observing Satellite (TIOS) Operational Vertical Sounder

TRMM Tropical Rainfall Measurement Mission

TRR Test Readiness Review

TSDIS TRMM Science Data and Information Systems

TSL Test Script Language

TSS TDRSS Service Session

UR Universal Reference

V0 Version 0

VIRS Visible Infrared Scanner

WAN Wide Area Network

WOTS Wallops Orbital Tracking Station

Glossary

Analysis Technical or mathematical evaluation based on calculation, interpolation, or

other analytical methods. Analysis involves the processing of accumulated

data obtained from other verification methods.

Consent to Ship Review to determine the readiness of a release for transition sites Review

(CSR) for integration testing.

Critical Design A detailed review of the element/segment-level design, including Review

(CDR)such details as Program Design Language (PDL) for key software

modules, and element interfaces associated with a release.

Demonstration Observation of the functional operation of the verification item in a

controlled environment to yield qualitative results without the use of

elaborate instrumentation or special test equipment.

Incremental Design Review conducted to evaluate segment designs associated with a Review

(IDR) release.

Inspection The visual, manual examination of the verification item and comparison to

the applicable requirement or other compliance documentation, such as

engineering drawings.

Scenario Group A collection of scenarios that form one of the broadest functional

subdivisions of the system.

Scenario A functional subdivision of a Scenario Group which is designed and

executed independently.

Sequence A subdivision of a scenario which is designed to verify a number of

functionally related requirements

Release Readiness Conducted at the ECS system level for a GSFC Project Review Review

(RRR) Team upon completion of release acceptance testing. The IATO leads the RRR to determine, with the GATT and the COTR, if the release is ready to be delivered, installed, and incorporated into the operational

system.

Test A procedure or action taken to determine under real or simulated conditions

the capabilities, limitations, characteristics, effectiveness, reliability, or

suitability of a material device, system, or method.

Test Case A relatively small grouping of requirements that form the building blocks of

a sequence.

Test Procedure A detailed, step-by-step test of a logically related group of requirements